

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16412 - L2 Version 1  
Chandra X-Ray Center

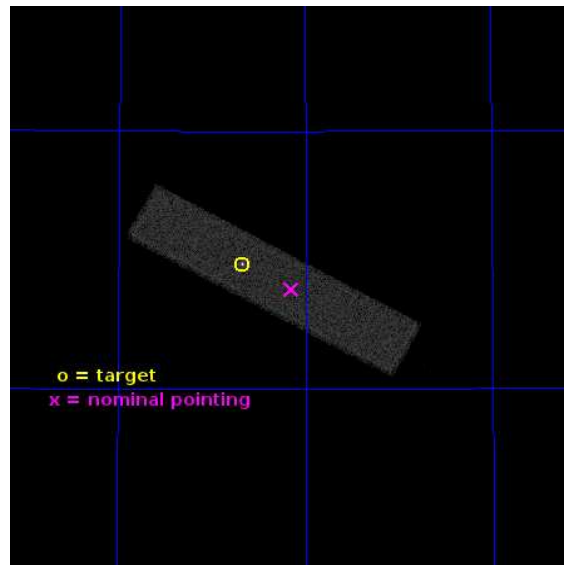
L2 Processing Date : Sep 17 2014

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

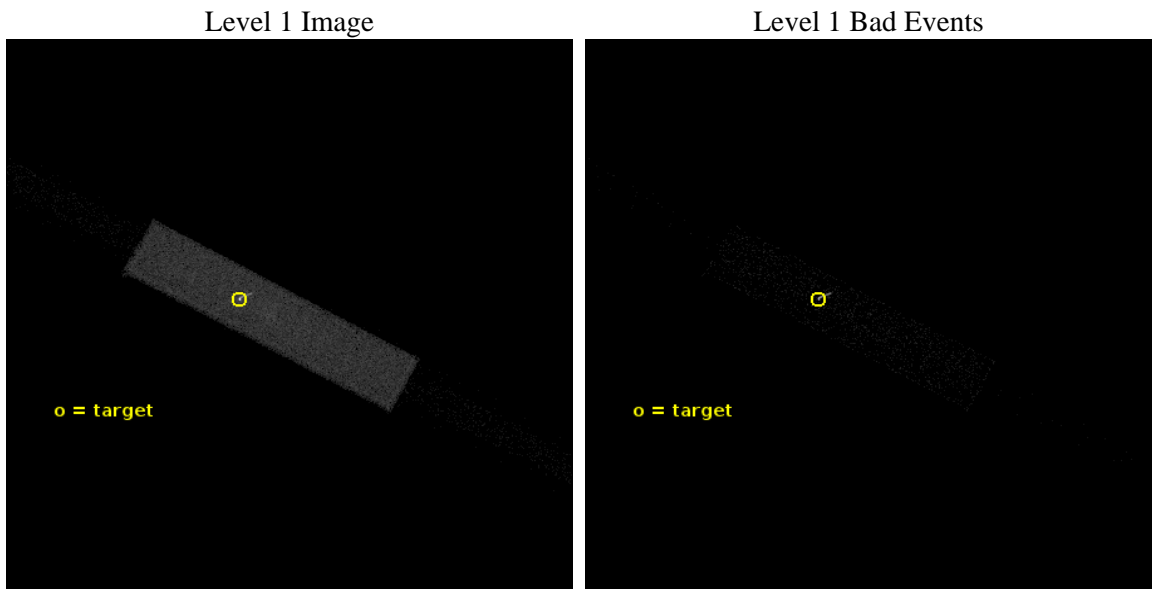
seq_num	291184	Sequence number
obs_id	16412	Observation id
title	AO-15 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.03717197735	Nominal RA [deg]
dec_nom	45.69328108003	Nominal Dec [deg]
roll_nom	208.54119635559	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1157.4813141823	[s]
livetime	1150.2386366024	Ontime multiplied by DTCOR
l2events	57740	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	1157.4813141823	[s]
caldsver	4.6.3	&#160	l1events	87882	Number of level 1 events
date	2014-09-17T03:51:26	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

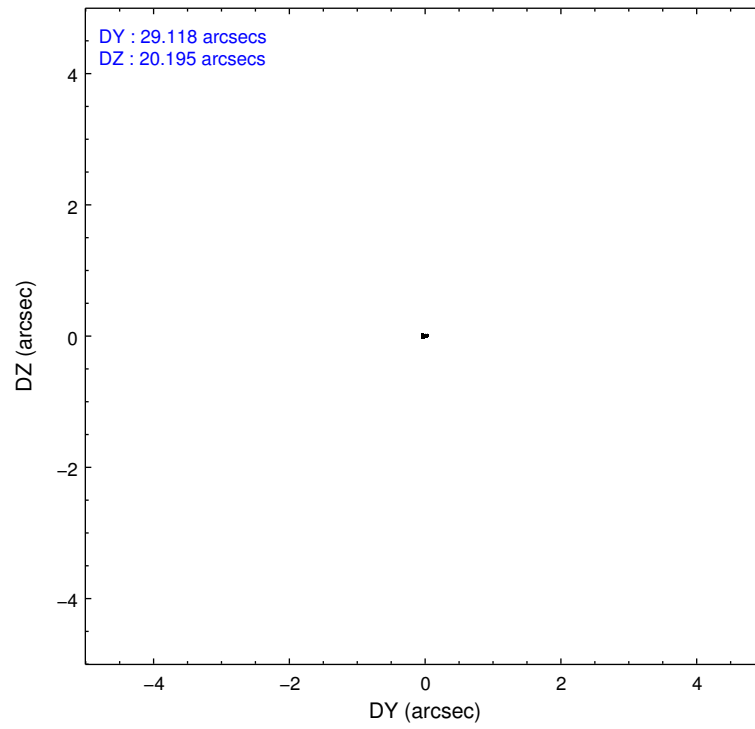
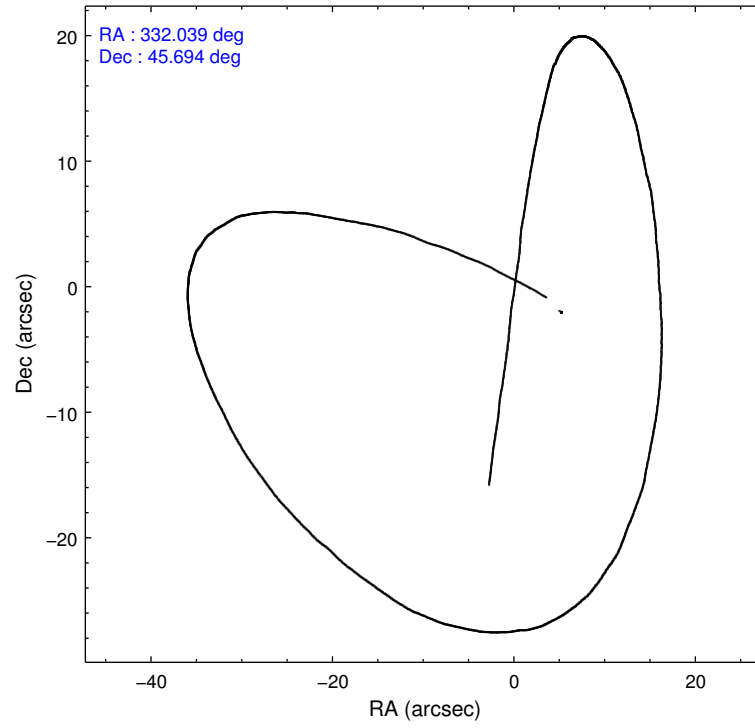
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	714	86495	673
rejected events	714	19351	660
rejected %	100%	22%	98%

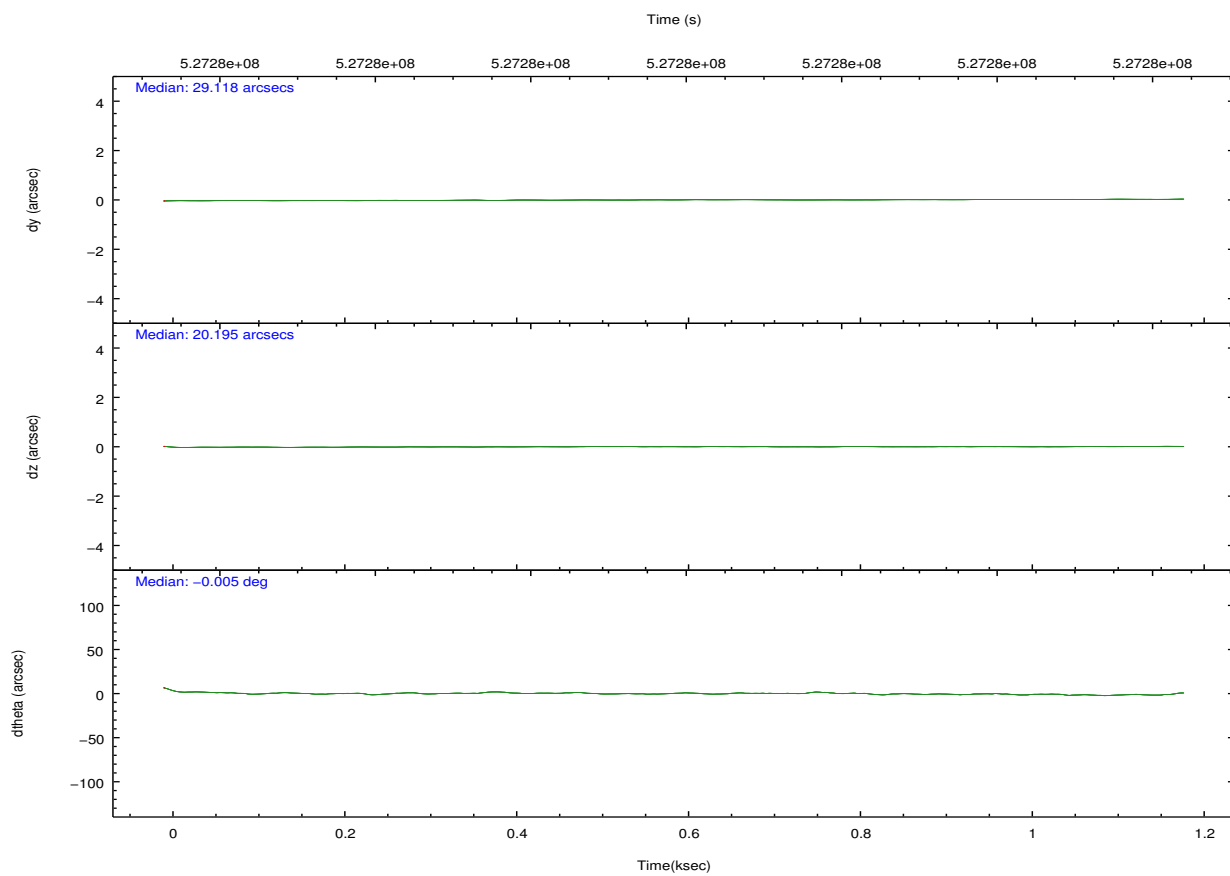
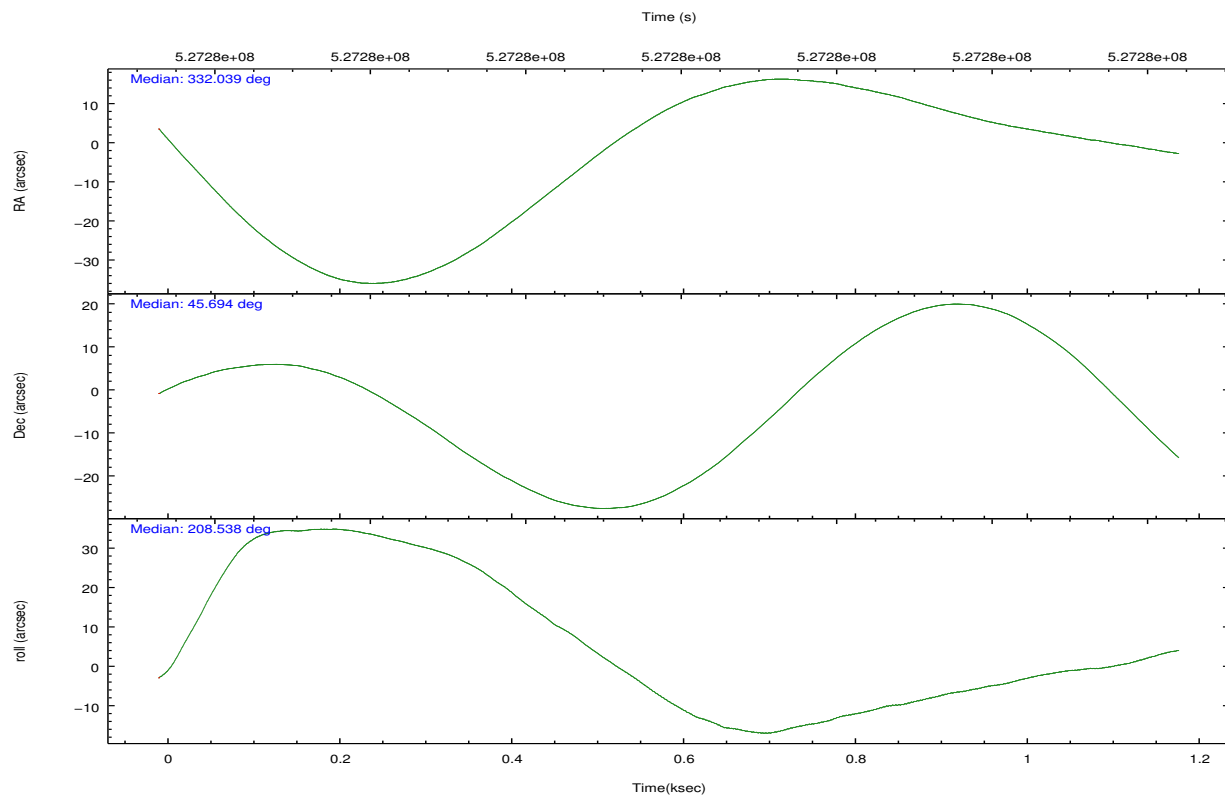
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.057685	332.0371719773478
[deg] Pointing Dec	45.717690	45.69328108002991
[deg] Pointing Roll	208.459241	208.541196355589
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	527279568.184000	527279192.21627
Observation start date	2014-09-16T18:31:41	2014-09-16T18:26:32
[s] Observation end time (MET)	527280568.184000	527280702.04136
Observation end date	2014-09-16T18:48:21	2014-09-16T18:51:42

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





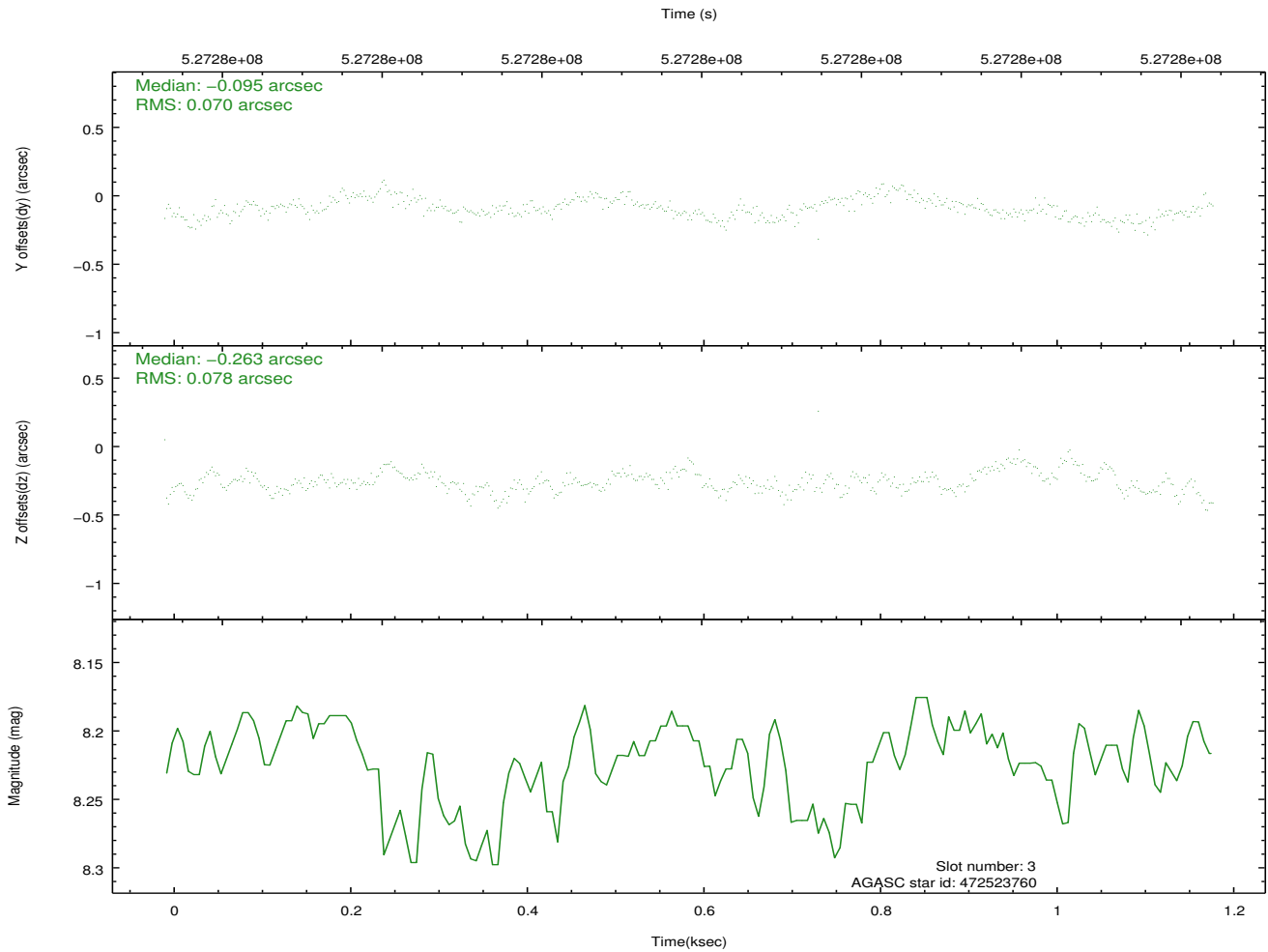
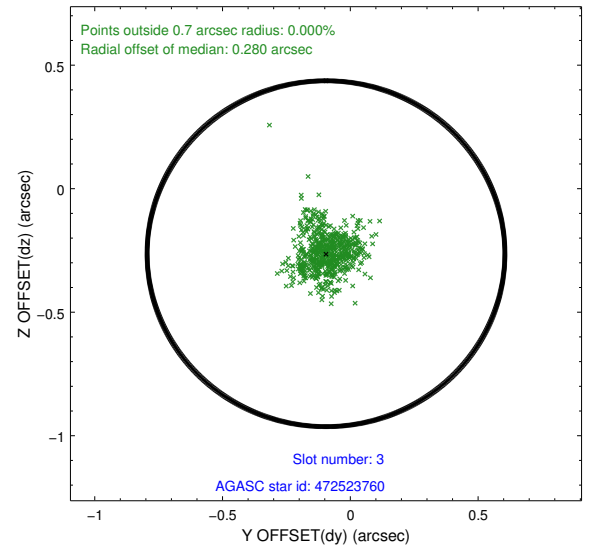
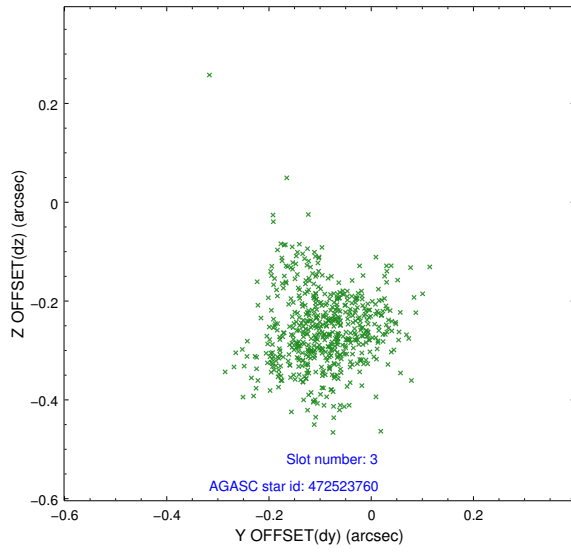
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-2	7.03	290	0.210	-0.164	0.008	0.011	0.000000	0.000000	1215.91	-461.86
1	FID	HRC-S-3	7.07	290	-0.139	-0.066	0.006	0.014	0.000000	0.000000	-1182.65	558.75
2	FID	HRC-S-4	7.01	290	0.334	-0.065	0.008	0.013	0.000000	0.000000	1210.51	564.88
3	GUIDE	472523760	8.22	580	-0.095	-0.263	0.110	0.176	331.645363	45.403260	1454.88	499.98
4	GUIDE	472527720	7.01	580	-0.574	-0.220	0.086	0.141	331.460205	45.112509	2372.40	1191.84
5	GUIDE	472533912	9.15	579	0.428	0.254	0.161	0.247	331.791136	46.368695	-530.25	-2370.64
6	GUIDE	472655152	9.42	580	0.153	-0.221	0.193	0.304	332.504239	45.862991	-1235.32	70.70
7	GUIDE	472659832	9.42	579	0.084	0.442	0.191	0.310	332.780399	46.098139	-2244.26	-347.05

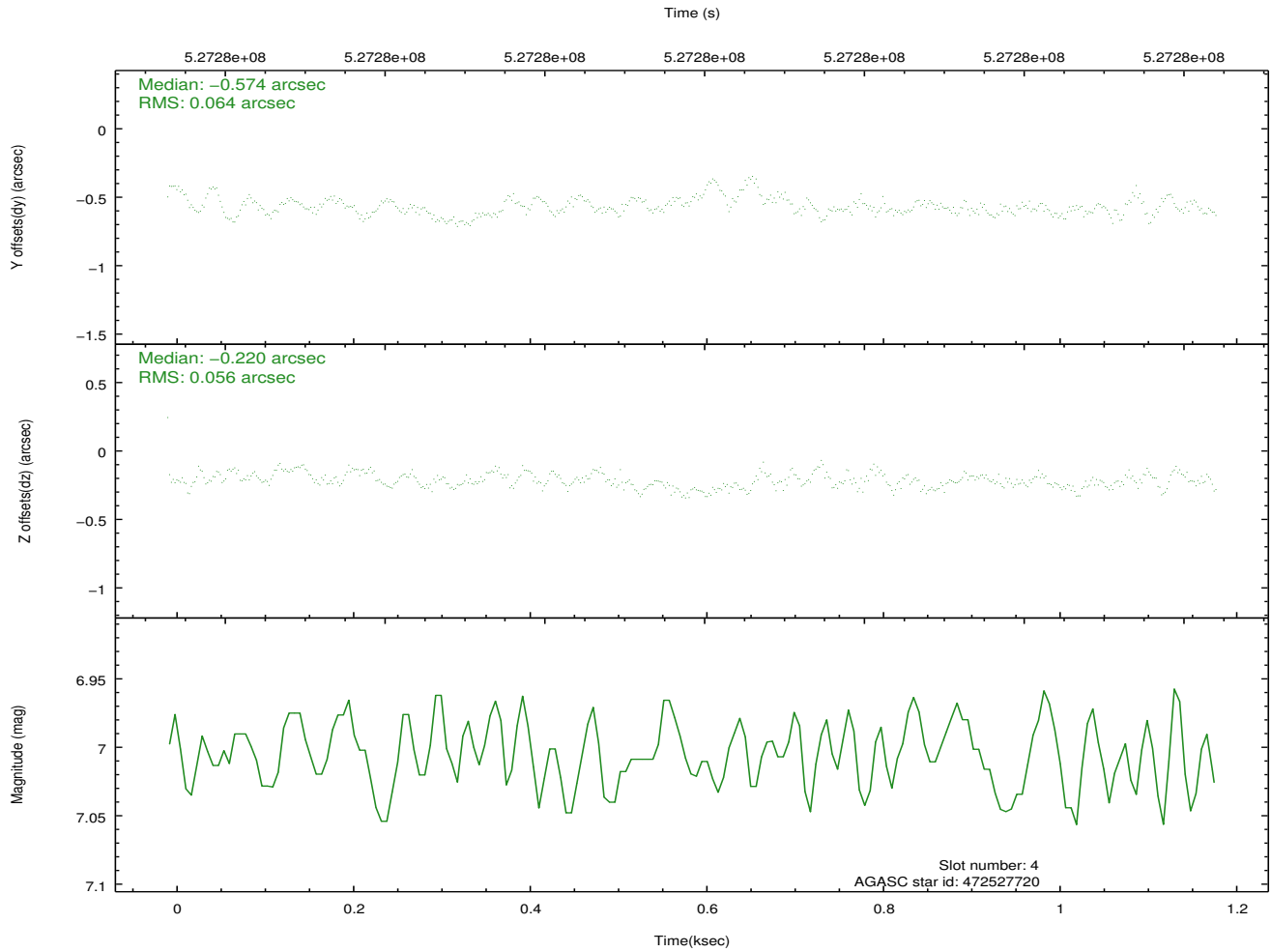
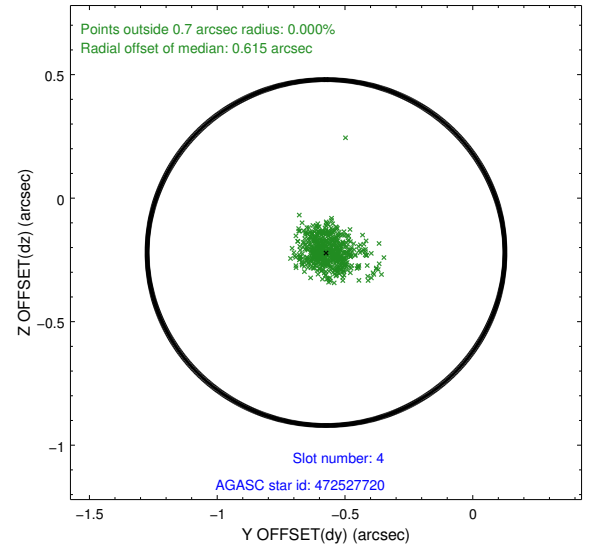
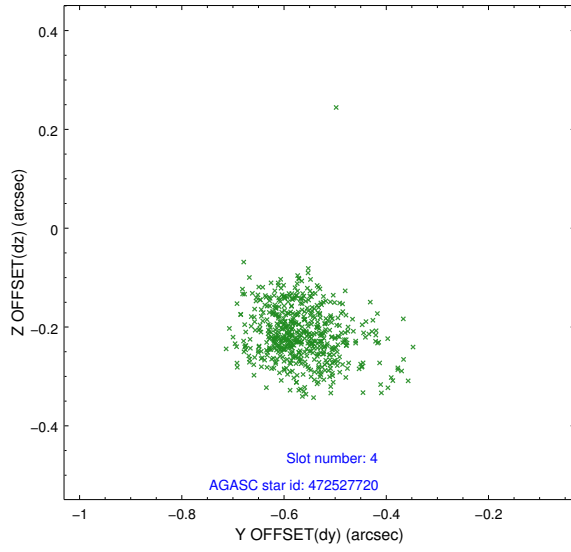


## 2.4 Star Slots

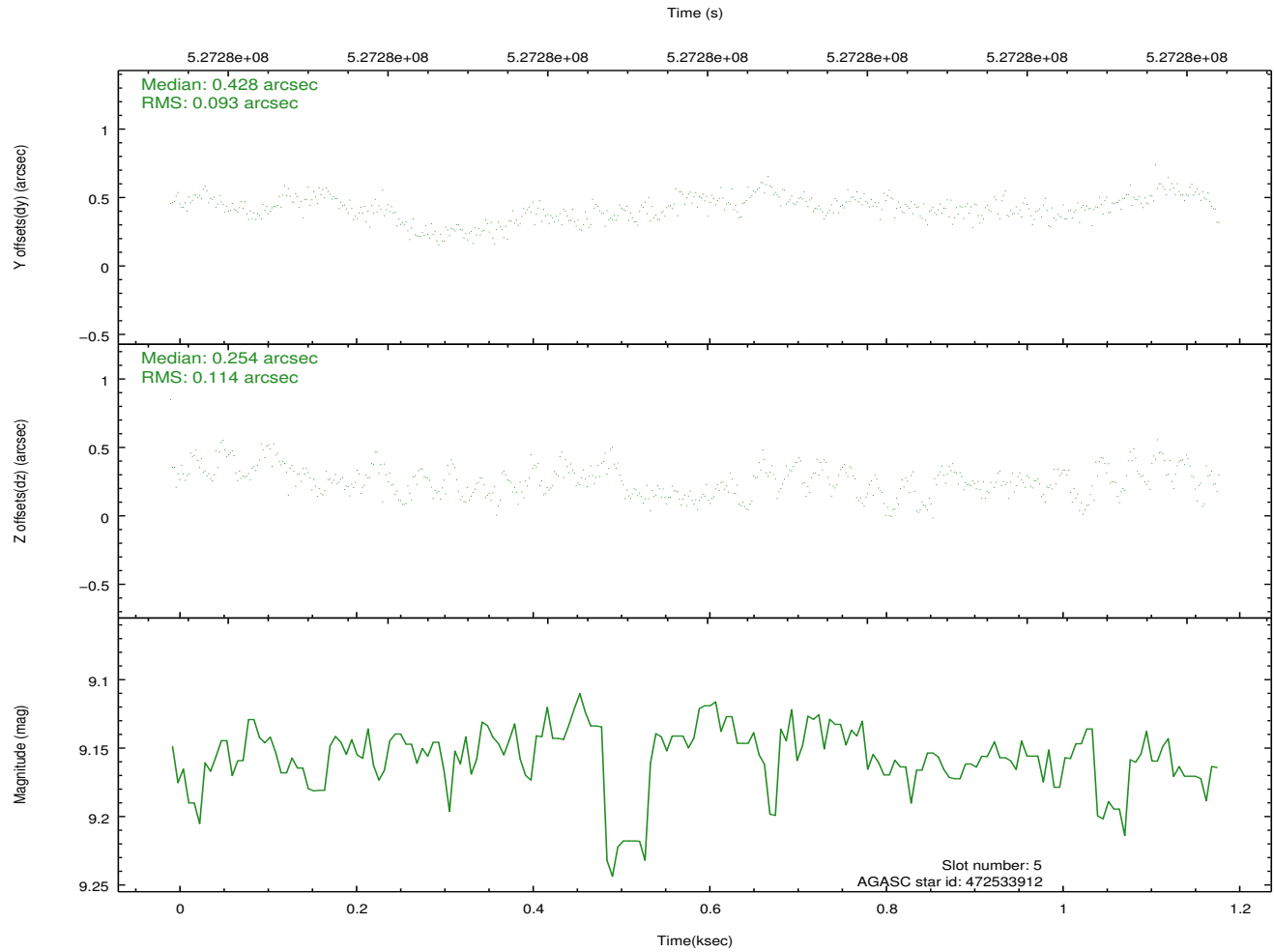
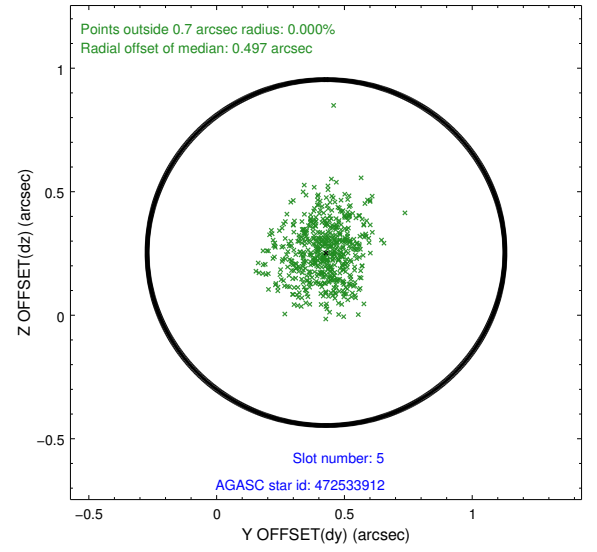
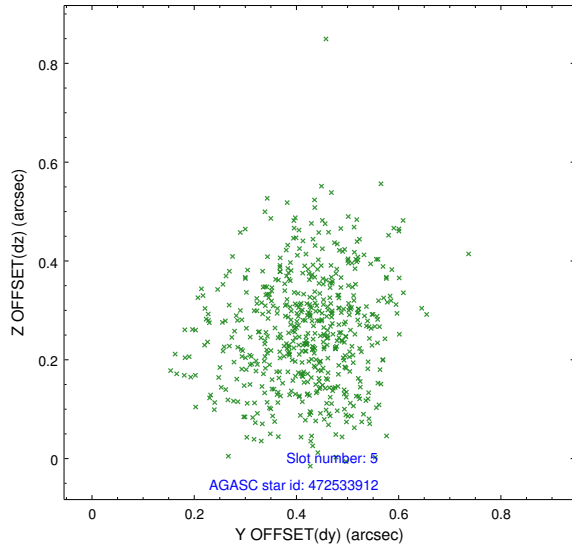
### 2.4.1 Slot 3



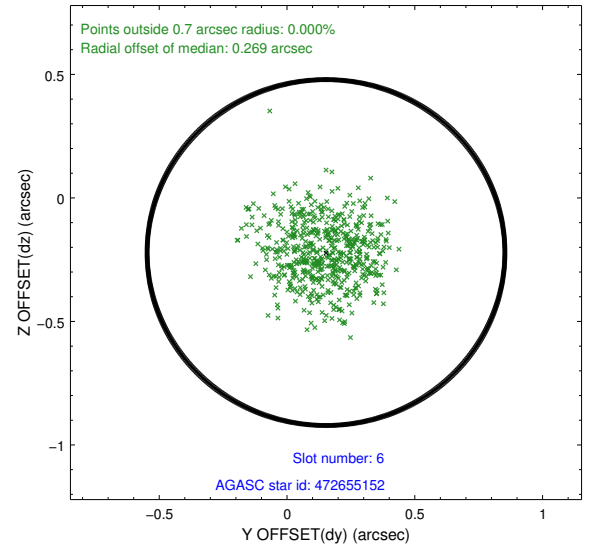
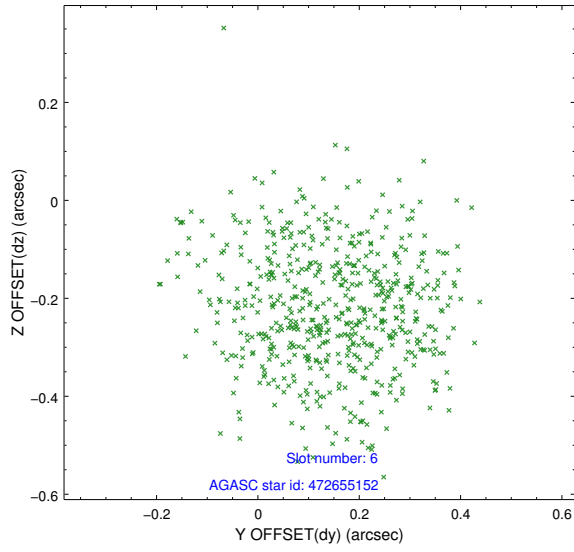
## 2.4.2 Slot 4



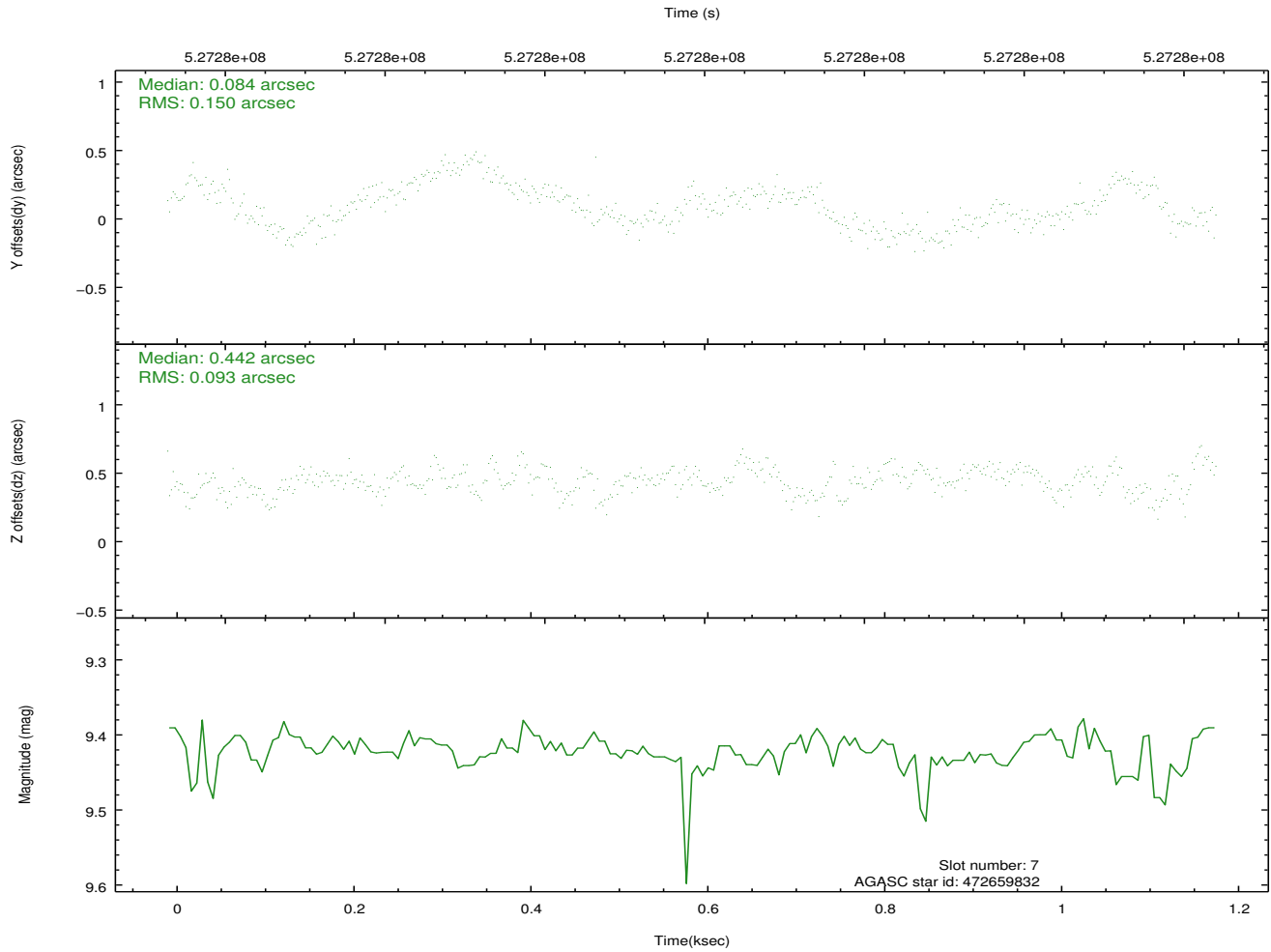
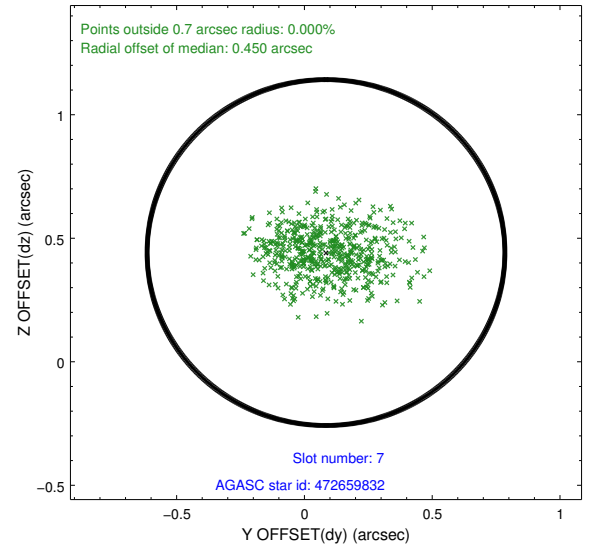
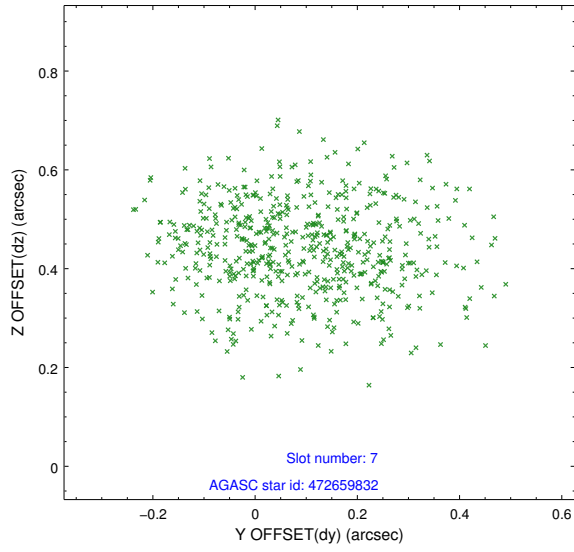
### 2.4.3 Slot 5



## 2.4.4 Slot 6

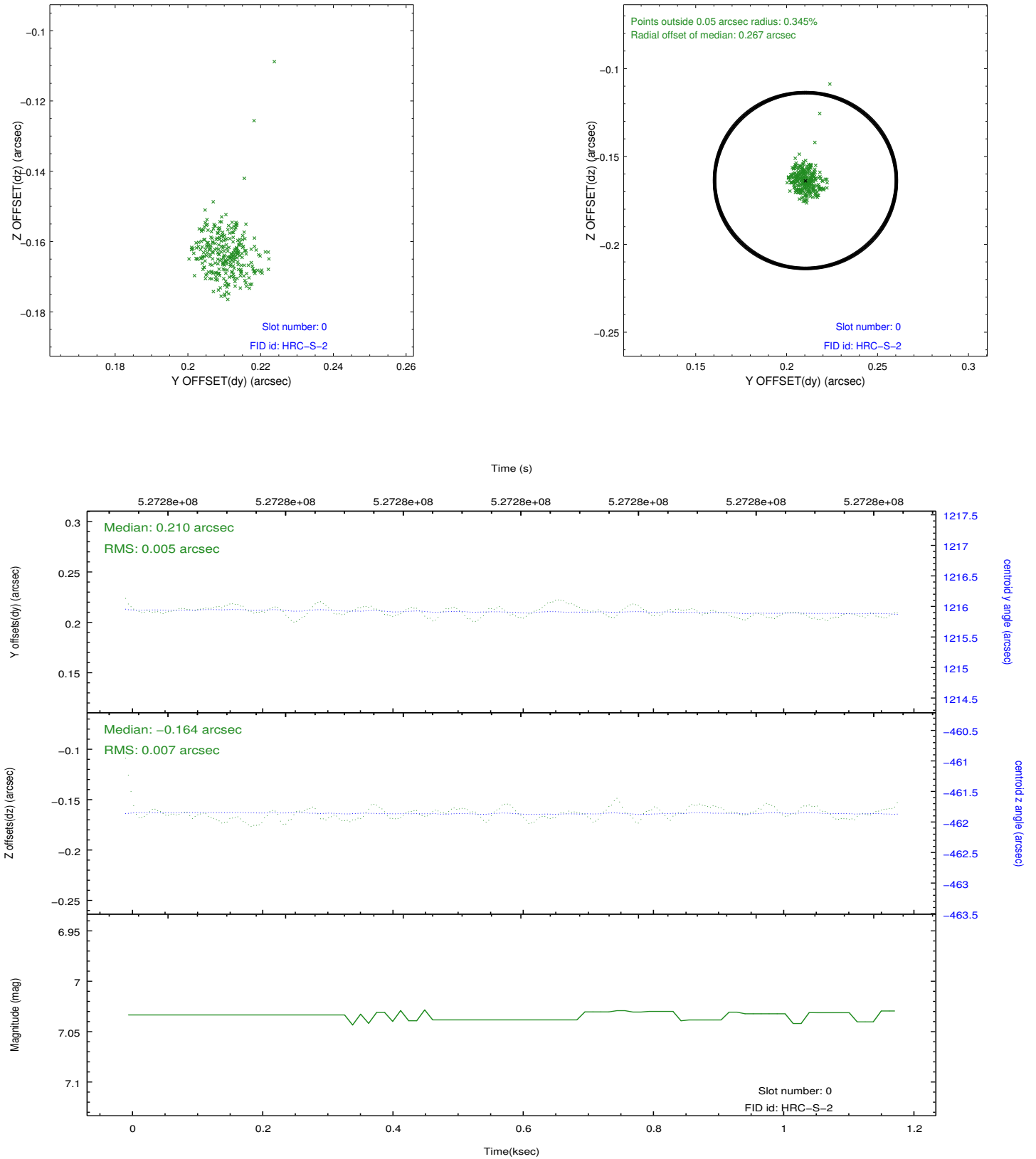


## 2.4.5 Slot 7

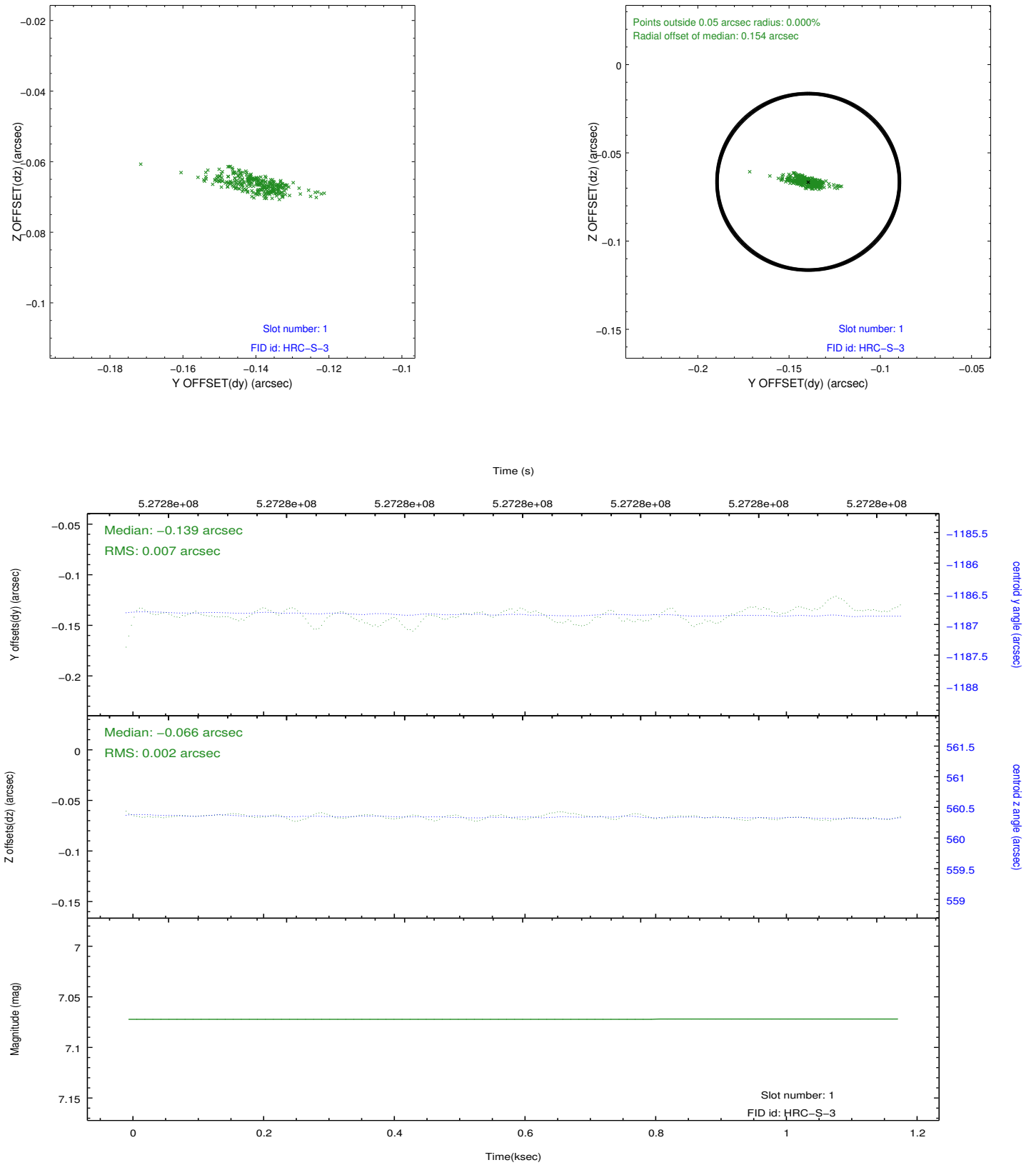


## 2.5 FID Slots

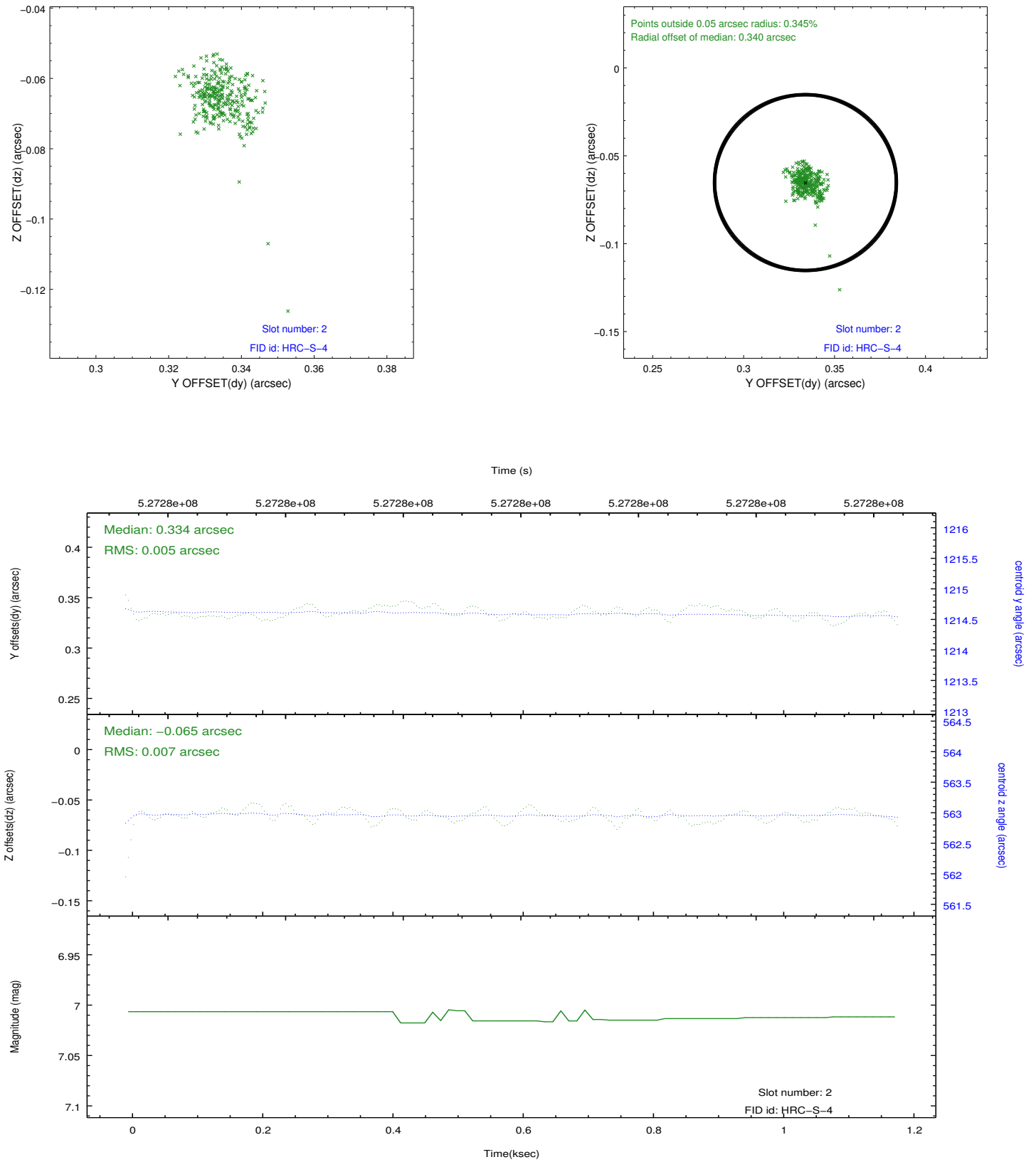
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1574813141823

### **A.2 Comments**